

spacer 2 and in the section extended upwardly around the guide rail; a compressor can be accommodated, for example, in the space 74 underneath the supply reel 63.

The supply station 70, in the embodiment shown in FIG. 6A, is equipped with three rollers 75, 76, 77 which guide the spacer 2 with the formation of a downwardly guided loop in freely hanging condition to the tool 20. Two lateral guide rollers 78 for the spacer 2 are additionally associated with the rerouting roller 75 of the supply station 70. The lower rerouting roller 76 can be moved upwards and downwards in the direction of the double arrow 79 and regulates, as described for the supply station 4, the drive means for the supply reel 63.

It is understood that the supply station 70 can be used selectively in the device illustrated in FIG. 1, and the supply station 4 can be utilized by choice in the embodiment of the device according to this invention shown in FIG. 6A.

The idea of encompassing the supply station and the part of the device wherein the flexible spacer travels with a heatable and coolable insulating housing 71 has the advantage that the spacer 2 is correctly temperature-controlled and does not stick to its various guide rollers whereas the glass pane 3 arrives at the device with normal room temperature so that the spacer 2 will firmly adhere thereto when attached by the tool 20.

The housing 71 illustrated in FIG. 6A is also usable with advantage in devices for attaching flexible spacers to glass panes having a different construction than the herein-described embodiments of the device of this invention.

FIG. 6B furthermore illustrates that four rollers are arranged on the side of the hollow shaft 23 facing the supply station. These rollers, equipped with a no-stick coating (e.g. silicone), which are preferably driven, are intended for imparting to the spacer to be attached an exactly rectangular cross section while the spacer enters the attaching tool 20. For this purpose, the axes of these rollers are preferably located in one plane, and the rollers contact the spacer from all four sides.

I claim:

1. Device for mounting prefabricated flexible spacers to a glass pane during the course of the manufacture of insulating glass, with a lateral support for substantially vertically disposed glass panes, a conveying means for feeding the glass panes, and with a guide tool for attaching the spacer, this tool being movable relatively to the glass pane, wherein the tool is displaceable upwards and downwards by way of a slide on a substantially vertically disposed guide rail, and with a supply station for the spacer exhibiting a feed reel for the spacer, characterized in that the tool (20) is rotatable at the slide (21) about an axis oriented essentially perpendicularly to the lateral support (7) for the glass pane (3) and can be moved forwards and backwards in the direction of this axis, wherein the spacer (2) is guided through a hollow-designed shaft (23) of the tool (20) to an attaching head (22) of the latter.

2. Device according to claim 1, characterized in that, for guiding the spacer (2) in the tool (20) and in the attaching head (22) of the latter, there are provided several guide and, respectively, rerouting rollers (34-37, 38, 39, 41, 42, 45, 46) which are optionally combined into groups and are preferably freely rotatable.

3. Device according to claim 1, characterized in that the spacer (2) exits from the hollow shaft (23) of the tool upstream of the attaching head (22) and is deflected,

with repeated rerouting, into a direction in parallel to the support (7).

4. Device according to claim 1, characterized in that the attaching head (22) exhibits at least one contact roller (43) for the spacer (2), rotatable about an axis in parallel to the support (7).

5. Device according to claim 4, characterized in that a roller pair (45, 46) is provided following the contact roller (43), the rollers (45, 46) being freely rotatable about axes oriented perpendicularly to the support (7) and being in contact with the spacer (2) on both sides.

6. Device according to claim 5, characterized in that a clamping means (48) is provided following the roller pair (45, 46), the end of the clamping means in opposition to the roller pair (45, 46) lying in the axis of rotation (axis of the hollow shaft 23) of the tool (20) and its attaching head (22).

7. Device according to claim 6, characterized in that the clamping tool (48) can be closed by means of a drive mechanism (52), preferably a pressure medium motor, so that its two jaws (49, 50) contact the spacer (2) from both sides.

8. Device according to claim 7, characterized in that one jaw (49) of the clamping tool (48) is rigidly attached to the attaching head (22), and that the other jaw (50) of the clamping tool (48) is mounted to be pivotable and can be moved by the pressure medium motor (52) toward the rigid jaw (49), and that the movable jaw (50) is stressed by a tension spring (51) along the lines of a pivoting into its open position.

9. Device according to claim 1, characterized in that guide rollers, preferably a roller triplet (38), are provided for the spacer (2) at the end of the hollow shaft (23) facing the support (7), and that the roller triplet (38) is rigidly connected to the tool (20).

10. Device according to one of claim 1, characterized in that the roller group arranged at the end of the hollow shaft (23) of the tool (20) on the inlet side comprises four rollers (34-37) wherein two rollers (34, 35) are oriented to be freely rotatable in parallel to the axis of rotation of the tool (20), and two further rollers (36, 37) are oriented to be freely rotatable about axes essentially perpendicular thereto, one of these rollers serving as a rerouting roller (36).

11. Device according to claim 1, characterized in that the attaching head (22) is connected with the hollow shaft (23) of the tool (20) by way of a cranked mounting (53, 54).

12. Device according to claim 1, characterized in that the roller triplet (38) located at the end of the hollow shaft (23) of the tool (20) on the outlet side is provided in the interior of the elbow of the mounting (53, 54) for the attaching head (22) wherein the rollers of the roller triplet (38) are freely rotatable about axes essentially perpendicular to the axis of rotation of the tool (20), and that two of the rollers (39) are mounted to be rotatable about axes in parallel to each other and essentially perpendicular to the third roller.

13. Device according to claim 1, characterized in that a ring (40) is provided at the attaching head (22), the spacer (2) being guided through this ring, and that, following the ring (40), a rerouting roller (41) is provided deflecting the spacer (2) into a direction substantially in parallel to the support (7).

14. Device according to claim 13, characterized in that, following the rerouting roller (41) located downstream of the ring (40), a further rerouting roller (42) is